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**CONTROL SYSTEM**

2216-66  
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4 February 1966

**MEMORANDUM FOR :** Chairman, U-2R Evaluation Board  
**SUBJECT :** Preliminary Evaluation of Life Support  
Area in the U-2R.

Since this report does not deal with all aspects of life support equipments, the evaluation is in two parts. Part I evaluates proposals specifically mentioned and Part II mentions requirements that would necessarily go into new U-2 aircraft.

**Part I**

Although the cockpit depth and width are going to be increased an average of four inches, there is no mention of increasing its length. An increase in length is mandatory to insure knee clearance of the windshield at the time of ejection.

25X1A The maximum altitude cruise capability of  hours and  
25X1A maximum range cruise capability of  hours, dictates a review of man's ability to function efficiently in a cockpit environment over such a long period of time.

**Part II**

Not mentioned in the report but well within the present state-of-the-art are the following requirements:

- a. A zero-zero escape system.
- b. A stabilizing device for the man during fall after ejection from high altitude.
- c. Thirty-five foot parachute canopy.

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d. Leg retractors and a torso retractor.

e. A full pressure suit.

It is recommended that a study be made of the possibility of incorporating a capsule type escape system.

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[ ]  
MAJOR USAF  
ASD/OSA

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